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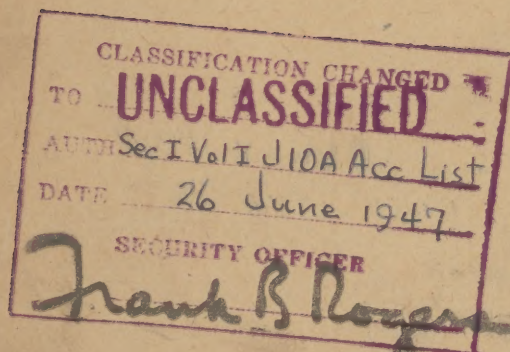
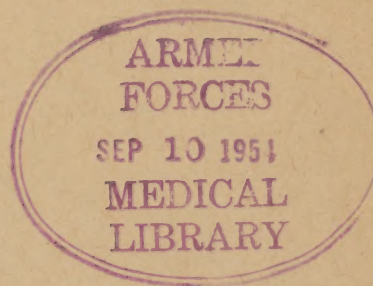
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LABORATORY STUDIES OF TYPHUS VACCINES
PREPARED BY BEHRINGWERKE
I.G. FARBENINDUSTRIE, MARBURG



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COMBINED INTELLIGENCE OBJECTIVES
SUB-COMMITTEE

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LABORATORY STUDIES OF TYPHUS VACCINES
PREPARED BY BEHRINGWERKE
I.G. FARBENINDUSTRIE, MARBURG GERMANY

28 May 1945

Reported By

Lt. Col. JOSEPH E. SMADEL, M.C.
Medical Section
Hq. ETOUSA

CIOS Target Number 24/2
Medical

COMBINED INTELLIGENCE OBJECTIVES SUB-COMMITTEE
G-2 Division, SHAEF (Rear) APO 413

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Personnel of Team

Lt. Col. JOSEPH E. SMADEL. M.C.
Medical Section
Hq. ETOUSA.

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R E S T R I C T E D

Discussion:

1. Samples of typhus vaccines prepared from infected rabbit lung and infected yolk sacs of embryonated eggs were obtained by the CIOS team that inspected the Behringwerke at Marburg, Germany on April 5 & 6, 1945. The result of laboratory studies on these vaccines are summarized at this time.

2. The rabbit vaccine probably was prepared in mid 1944, as the expiration date is given as June 1945; the yolk sac vaccine probably was prepared late in 1944 as the expiration date is given as December 1945.

3. Stained smears of the rabbit vaccine showed much debris and a few bodies morphologically like rickettsia. The yolk sac material microscopically showed small amounts of debris with large numbers of typical rickettsial bodies present. The samples of typhus vaccines prepared at Marburg from rabbit lung had little detectable complement fixing antigen of typhus. In contrast, the yolk sac vaccine had good quantities of this antigen when compared with U.S. Army typhus vaccine. The result of complement fixation studies on the vaccines are presented in the accompanying table. Animals were not immunized with the Marburg vaccines.

T A B L E

<u>SPECIMEN</u>	<u>SERUM</u>	<u>C - F TITERS</u>	
		<u>Ether Extra.</u>	<u>Not extracted</u>
"Behringwerke" '293-Fleckfieber- Impstoff aus Kaninchenlun- gen Verwendbar bis 30-6-45 Op. Nr - I.G. Farbenin- dustrie-Aktien- gesellschaft Leverkusen (Anti-complimentary control)	Epidemic Murine Saline	Less than 1:2 " " 1:2 " " 1:2	1:2 not done 1:2 partial

R E S T R I C T E D

"Bekringwerke"			
'294-Fleckfieber-	Epidemic	1:16	1:16
Impstoff aus			
Dottersacken			
Verwendbar bis	Murine	1:8	not done
3-12-45			
Op. Nr. 334 -			
I.G. Farbenin-			
dustrie Aktien-			
gesellschaft			
Leverkusen	Saline	less than 1:2	1:8
	(Anti-complimentary		
	control)		

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